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Docket No. K21424USWO C038435/0185653

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE ACTING AS  
DESIGNATED/ELECTED OFFICE (DO/EO/US) UNDER THE PATENT  
COOPERATION TREATY CONCERNING A FILING UNDER 35 U.S.C. §371

*In re* Application of: )  
Tatsuo HOSHINO *et al.* )  
Based on Int'l Application No.: PCT/EP2003/010498 ) Examiner: Not yet assigned  
International Filing Date: 22 September 2003 ) Art Unit: Not yet assigned  
Filed: Herewith )  
For: **ALDEHYDE DEHYDOGENASE GENE** )

New York, NY  
March 23, 2005

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record the following documents (clean copies and a Form PTO-1449 listing the documents are enclosed). The following documents were cited in the International Search Report, mailed April 16, 2004 in the International application corresponding to the above-captioned case.

**U.S. PATENT DOCUMENTS**

	<b><u>Document No.</u></b>	<b><u>Date</u></b>
A1	5,437,989	8/1/1995

## FOREIGN PATENT DOCUMENTS

	<u>Document No.</u>	<u>Date</u>	<u>Country</u>
B1	EP 0 790 301 A2	8/20/1997	Europe
B2	WO 89/06688 (also published as EP 0 373 181)	7/27/1989	PCT
B3	WO 02/34919	5/2/2002	PCT
B4	JP 2002-125689	5/8/2002	Japan

## OTHER DOCUMENTS

- C1 Saito, Y. *et al.*, "Direct Fermentation of 2-Keto-L-Gulonic Acid in Recombinant *Gluconobacter oxydans*," Biotechnology and BioEngineering, vol. 58, no. 2&3, pp. 309-315 (1998).
- C2 Saito, Y. *et al.*, "Cloning of Genes Coding for L-Sorbose and L-Sorbose Dehydrogenases from *Gluconobacter oxydans* and Microbial Production of 2-Keto-L-Gulonate, a Precursor of L-Ascorbic Acid, in a Recombinant *G. oxydans* Strain," Applied and Environmental Microbiology, vol. 63, pp. 454-460 (1997).
- C3 Hoshino, T. *et al.*, "Isolation and Characterization of NAD(P)-Dependent L-Sorbose Dehydrogenase from *Gluconobacter melanogenus* UV10," Agric. Biol. Chem., vol. 55, no. 3, pp. 665-670 (1991).
- C4 Asakura and Hoshino, "Isolation and Characterization of A New Quinoprotein Dehydrogenase, L-Sorbose/L-Sorbose Dehydrogenase," Biosci. Biotechnol. Biochem., vol. 63, no. 1, pp. 46-53 (1999).
- C5 Hancock and Viola, "Biotechnological approaches for L-ascorbic acid production," Trends in Biotechnology, vol. 20, no. 7 (2002).
- C6 Derwent Database English language abstract of JP 2002-125689 (document B4 above).

Document B4 is not in English. Therefore, a Derwent English abstract is provided as Document C6.

The Examiner's independent consideration of all of these documents and their relevance before issuance of the first official action is respectfully requested. The

Examiner is also requested to initial and return a copy of the accompanying form PTO-1449 to evidence such consideration.

Copies of the International Search Report and International Preliminary Examination Report are included herewith. All documents cited in these reports are identified herein and copies of all documents other than U.S. Patent Documents are provided. See MPEP § 609(III)(A)(2)(A) (8<sup>th</sup> Ed., Rev. 2, May 2004, p. 600-128); See also 1276 OG 55 (August 5, 2003) (Waiving the requirement under Rule 98(a)(2)(1) to provide a copy of each cited U.S. patent document for any application filed after June 30, 2003.).

This Information Disclosure Statement is being filed in accordance with the provisions under 37 C.F.R. §1.97(b)(2), within three months of the date of entry of the national stage of the international application. Accordingly, no fee is believed to be due. If, however, a fee is due, please charge the same to Deposit Account No. 02-4467. A duplicate copy of this sheet is enclosed.

If the Examiner has any questions regarding this paper, please contact the undersigned attorney.

Respectfully submitted,

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Form PTO-1449 (Rev. )	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. K21424USWO C038435/0185653	INTERNATIONAL APPLICATION NO. PCT/EP2003/010498
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)		APPLICANT Tatsuo HOSHINO <i>et al.</i>	
		INTERNATIONAL FILING DATE 22 September 2003	GROUP Not Yet Assigned

## U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	5,437,989	8/1/1995	Asakura <i>et al.</i>			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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C2	Saito, Y. <i>et al.</i> , "Cloning of Genes Coding for L-Sorbose and L-Sorbose Dehydrogenases from <i>Gluconobacter oxydans</i> and Microbial Production of 2-Keto-L-Gulonate, a Precursor of L-Ascorbic Acid, in a Recombinant <i>G. oxydans</i> Strain," <u>Applied and Environmental Microbiology</u> , vol. 63, pp. 454-460 (1997).		
C3	Hoshino, T. <i>et al.</i> , "Isolation and Characterization of NAD(P)-Dependent L-Sorbose Dehydrogenase from <i>Gluconobacter melanogenus</i> UV10," <u>Agric. Biol. Chem.</u> , vol. 55, no. 3, pp. 665-670 (1991).		
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EXAMINER	DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			